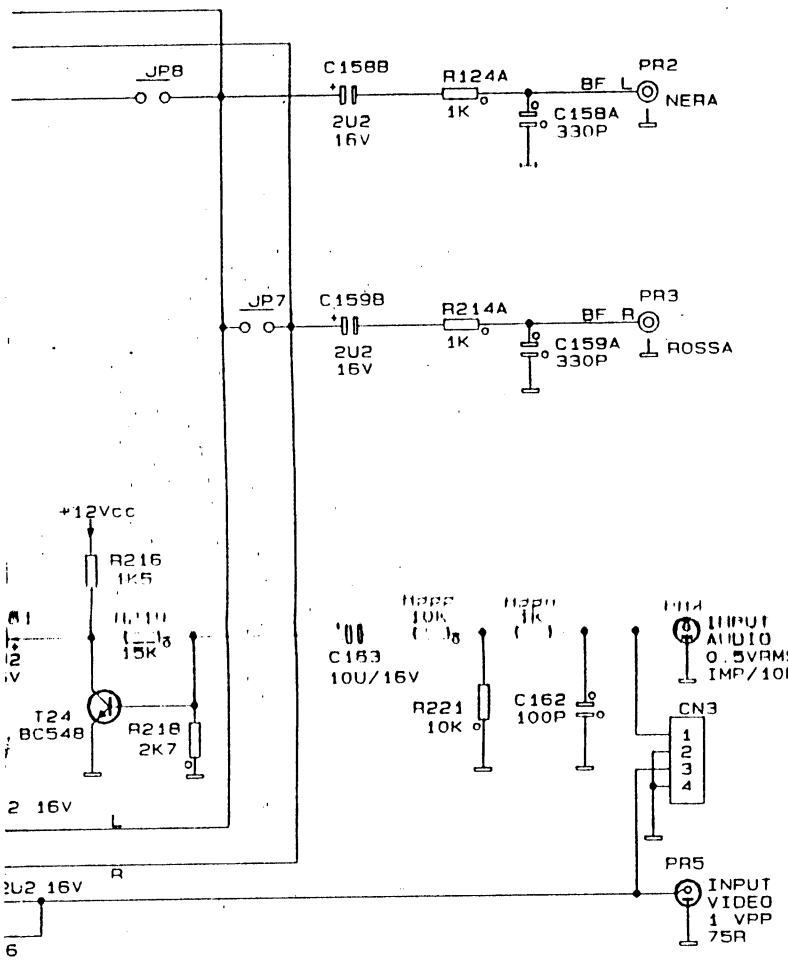
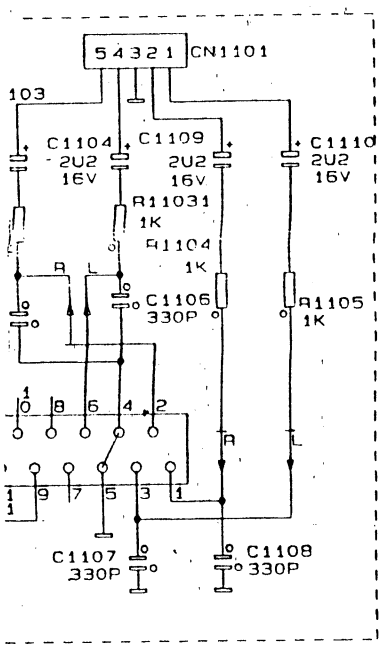
SELECO

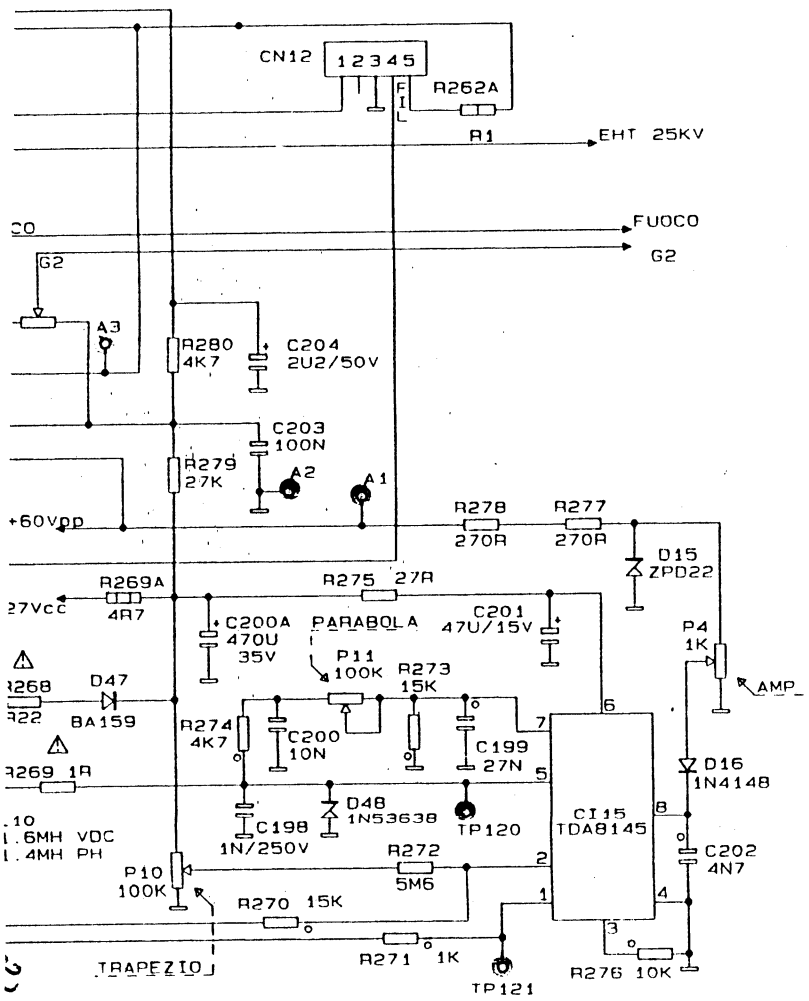
29545

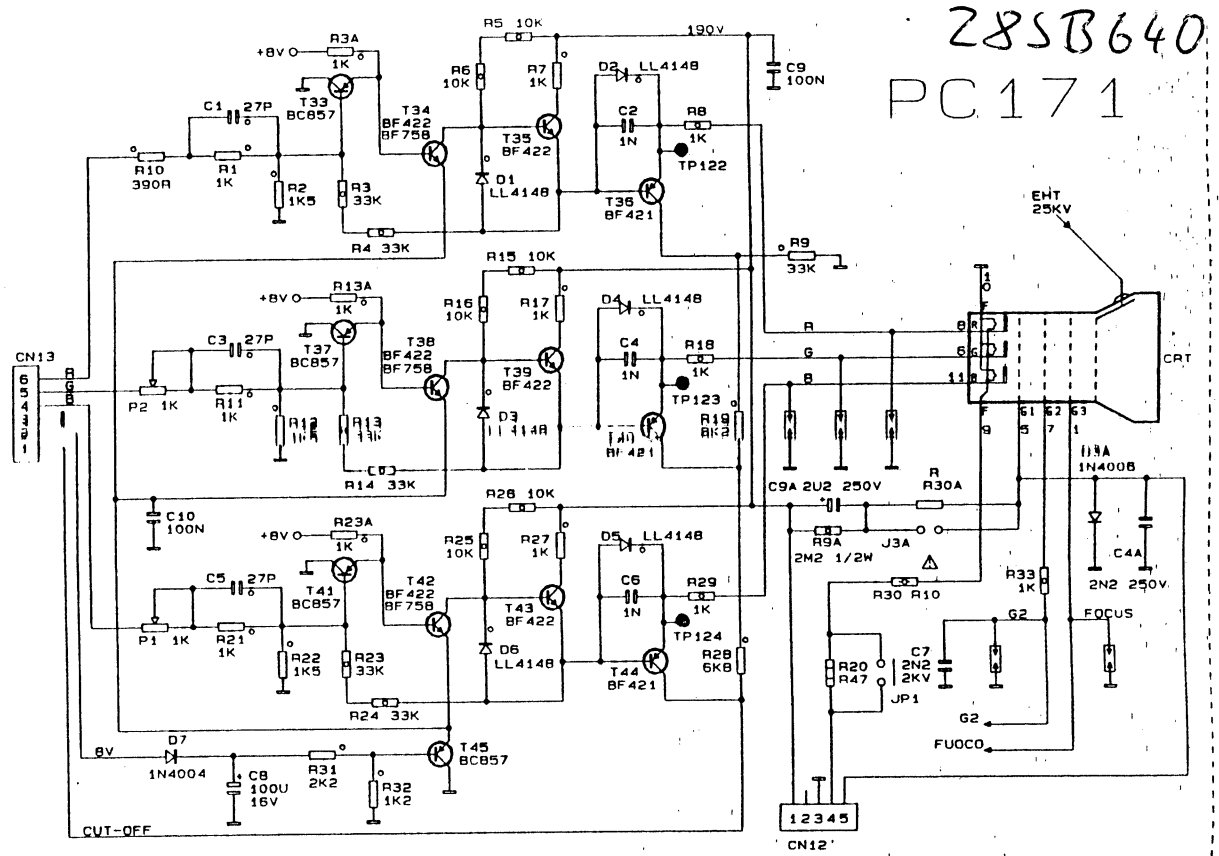
MODEL

SERVICE MANUAL









UHER-Servicestelle
Hohn GmbH
20537 Hamburg • Luisenweg 97
Tel. 040/21 20 71 • Fax 040/21 20 73

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Moreover, they decline all responsibility for eventual errors, whether due to misprints or incorrect transcription, and reserve the right to make any necessary or useful changes without jeopardizing the essential characteristics.
All resistors without markings are 1/4 W - 5%. All measurements refer to ground with mains supply 220V (240V UK) correct picture and a voltmeter of 20.000 Ohm/V.

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Alle Widerstände ohne Bezeichnung sind 1/4 W - 5%. Alle Messungen beziehen sich auf Masse, mit einer Netzspannung von 220 V (240 V UK) und normalem Fernsehsignal gemessen mit einem Voltmeter von 20.000 Ohm/V.

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Toutes les résistances sans d'indication sont de 1/4 W - 5%. Toutes les mesures sont respect a la masse, avec tension secteur 220 V (240 V UK). Image corecte et avec un voltmètre de 20.000 Ohm/V.

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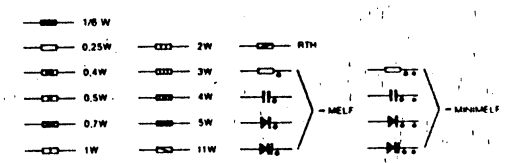
Tutte le resistenze prive d'indicazione s'intendono da 1/4 W - 5%. Tutte le misure s'intendono rispetto a massa con alimentazione rete 220 V (240 V UK). Immagine corret e con un voltmetro da 20.000 Ohm/V.



In order to ensure the maximum safety and reliability, original spare parts should alway be used when replacing components.
Particular care should be taken when replacing components marked with the symbol ⚠

Zur Gewährleistung von Sicherheit und Zuverlässigkeit dürfen nur Original-Ersatzteile verwendet werden.
Besondere Sorgfalt wird bei den Teilen, die mit dem Symbol ⚠ gekennzeichnet sind, verlangt.

Pour une plus grande sécurité et fiabilité, tous les composants doivent être remplacés p des pièces originales.
Il faut prêter une attention particulière à ceux portant le symbole ⚠.

Ai fini della sicurezza ed affidabilità tutti i componenti devono essere sostituiti con pez originali.
Particolare attenzione va posta a quelli contrassegnati con il simbolo ⚠.

MEASUREMENTS PERFORMED USING COLOUR BARS WITH 100% MODULATION
MESSUNGEN SIGNALTYP 100% MODULIERTES FARBBALKEN
LES MESURES SONT EFECTUEES AVEC SIGNAL: MIRE EN COULEUR MODULEE AU 100%
RILIEVI ESEGUITI CON SEGNALE: BARRE COLORE MODULATE AL 100%

28SB640
PC171

Seleco 28SB640

Colour TV receiver
Televisione a colori
STAR
PC 170-110°

SELE - 0002

JP9
JP8
C158B 2U2 16V
R124A 1K
C158A 330P
PR2 NERA
JP7
C159B 2U2 16V
R214A 1K
C159A 330P
PR3 ROSSA
SC1 PIN 13 CI4
+5Vcc
R196 10K
R210 10K
C155 1U/63V
R57 4K7
R56 8K2
C156 22uF
R211 1K
C157 22uF
R212 1K
PS1
C160 330P
C159 330P
R191 75R
R192 68R
R197 75R
C150 330P
C151 330P
R217 27K
R215 27K
+12Vcc
R216 1K5
C161 2U2 16V
TP10 15K
T24 BC548
R218 2K7
VPIP
GND
R213 1K
C156A 2U2 16V
R214 1K
C157A 2U2 16V
JP6
C163 10U/16V
R222 10K
R221 10K
R223 1K
C162 100P
PR4 INPUT AUDIO 0.5VPP IMP/10
CN3
PR5 INPUT VIDEO 1 VPP 75R
AV/TV PIN20 CI4
R193 75R
CI9 SW4053
R199 120R
R198 100R
JP32 R0
T23 BC848
R205 1K
+8Vcc
54321 CN8
SCART1=0
SCART1/2
PIN16 CI4
PIN20 CI4 AU/TV AV=0
TP8
+12Vcc
SVHS=1 SVHS/CUBS
R206 10K
R208 2K2
R207 4K7
T22 BC848
C153 100N
C205 100N/63V
R200 10K
C1101 22uF
12345 CN1100
54321 CN1101
R1101 150
C1103 2U2 16V
C1104 2U2 16V
C1109 2U2 16V
C1110 2U2 16V
C1102 22uF
R1100 150
R1102 1K
R11031 1K
R1104 1K
CI1100 TEA2124
C11105 330P
C1106 330P
R1105 1K
C1102 22uF
75 R1106
R1187 75
PS1100
C1107 330P
C1108 330P
PC172
D201 LL4148
R204 75R
TTX9
TTX16
TTX
TTX8
CN5
CN6
SDA SCL AV/TV CVBS VIDEO
SDA=PIN 40 CI4
SCL=PIN 41 CI4
ON/OFF=PIN 37 CI4
T13 BC848
R182 390R
D11 1N4148
R44 10K
C203A 18P 1KV
R279A 47K
CN12 12345
R262A
R1 EHT 25KV
TP115
+145Vcc
R257 5R6/7W
H SYNC
SANDCASTLE
R260 22K
R261A 10K
C187 680N
C188 10U/250V
D43 BA157
R262 47R
TR3
CI14 TDA3654
VDRIVE SGND SWITCH PGND VEATOUT OPS PROT FLYGEN VCC
1 2 3 4 5 6 7 8 9
R256 27K
R255 22K
R261 1K
T16 BC858
T32 BD675
R263 180R
C189 33N/100V 1/2W
TR2
BA157 D44
FUOCO
G2
A3
R280 4K7
C204 2U2/50V
R264 6R8
R265 R22 2W
C190 100U/25V
TP118
C203 100N
R279 27K
A2
A1
+60Vpp
R278 270R
R277 270R
D15 ZPD22
TP116
R251 10K
C185 100U/36V
R254 270 1/2W
C186 1000U 35V
+27Vcc
R252 3K9
C184 4N7
C183 470P
D40 1N4001
R259 4K7
BU508F1
T31 BY228
D45
C192 11.2N
R42 6K8
D14 BA159
T29 BC548
T30 BC558
P9 100K
TP117
C191 1.5N/2KV
R266 47R
C193 27N
R269A 4R7
R275 27R
C200A 470U 35V
PARABOLA
C201 47U/15V
P4 1K
AMP
C182 4N7
R50 10K
R253 56K
C47 2U2/50
R258 560R
C194 560N 250V 470N VDC
C197 1U/100V
1/2W
R268 R22
D47 BA159
P11 100K
R273 15K
R40 270R
P3 4K7
R39 10K
A4
TP119
C195 470N/250V 680N VDC
C196 1U/100V
R269 1R
R274 4K7
C200 10N
C199 27N
D16 1N4148
R248 15K
P8 100R
C48 2200U 25V
C49 100N 250V
VERT_LIN
VERT_SHIFT
C180 470P
R249 68R
R250 R47 PH R82 VDC
R267 1K5
L9 1MH
L11 15MH
L10 1.6MH VDC 1.4MH PH
C198 1N/250V
D48 1N53638
TP120
CI15 TDA8145
C202 4N7
P10 100K
R272 5M6
R270 15K
R271 1K
R276 10K
TRAPEZIO
R43 R82
CN11
V
YOKE
H
+15Vcc
+16Vcc
VERT_AMP
+145Vcc
+33Vcc
+12Vcc
+8Vcc
+5Vcc
C179 220N
Vcc

CNST2 CON10

CNST3 CON12

IDENT AV/TV L IF OUT IF IN IF IN

AUDIO TV OUT +8VCC +12VCC INTERCC PIN6 BFR BFL

+8Vcc

JP3 JP2

CH101 10uH P7 47K FASE

R152 820K

R163A 2K2 D11 1N4148

CI4 PIN19 BG/L L=1

1N4148

LL4148 C126 3N3

RP6 R0 R153 2K2 C127 100N

T19 BC848 R154 1K

R156 10K C129 2U2/16

C128 4N7

CI8 TDA8362A

50	AUDOUT	DE/SDT	1
39	PH2LF		
51	DSDEM		
52	DBGS	IFDEM1	2
47	TUNAGCOUT	IFDEM	3
10	VP	DET	33
		EXTAU	6
40	PHILF	AUDIFIN	5
46	IFIN2	IFVIDOUT	7
45	IFIN1	DDS	8
9	AFCOUT	STHOR	36
34	OSC3 58M	HOUT	37
35	OSC4 43M	CVBSIN	15
49	AGCADJ	VID/SYN	13
4	IDENT	AV/TV	16
17	LUX	BOUT	18
26	COL	GOUT	19
12	DFT	ROUT	20
		FBLKIN	21
30	R-Y OUT	RIN	22
31	B-Y OUT	GIN	23
28	B-Y IN	BIN	24
29	R-Y IN	CUT-OFF	14
38	SANDO/FLYIN	CONT	25
41	GND2	RAMPGEN	43
11	GND1	VERTOUT	44
32	XTALOUT	VFLY	42
		DAGC	48
27	HUE	GND2	41

R157 390 C130 12P R158 5K6

39.9MHZ LL1

R159 100K C132 100N C131 4N7

C133 1N

R160A 12K R160 10K D101 1K

C147 100N R186 47R C146 22N C145 10U 16V T17 BC848

L2 1UH R187 220R

TP106 TP5 C135 47N TP11

C136 47N

TP13 JP24 R0 RP26 R0 TP12 R47B 1K8

3.3uH CH102 3.3uH CH103 3.3uH CH104

TP110 TP103 TP104 TP1 TP2 TP105

TP111 TP112

CN4 CUT-OFF

R173 10K

TP107 TP108 TP109

TP7 C140 2U2/16

TP113 C143 100P

R178 33K +8Vcc

D37 114148 +8Vcc

3M3 MET R174 C141 100N 5%

R176A 1M5 MET T11 BC848

R174A 10K

R144A 10K R145 4K7 R144 22K C115A 4U7 16V C113 22N T10 BC858 R146 4K7

BG/DK R175A 10K

C142 4U7/16 C181A 1N

D39 1N4148 C144 1N2 R180 1K2

R181 470R T12 BC858 R184 12K R185 3K3 R183 4K7

T13 BC848 R182 390R

R175 22M

R44 10K D11 1N4148

TP115 +145Vcc R257 5R6/7W

H SYNC +8Vcc

SANDCASTLE R260 22K

R176 390K

TP2 +145Vcc

R235 18K +33Vcc

D28 BYV95C C94 100U/250V

DZ1 ZTK33 C170 4N7/50V

L8 47U

D27 BYV28 C93 470U/25V

C175 220N 9K1 2% R285 C176 100U/25V +12Vcc

CI13 L78M08CV IN OUT GND C179 220N +8Vcc

C171 100U/25V

CI12 TDA8138

C172 220N C174 100N +5Vcc

R247 10K C181 220N C178 100U/16V

R286 2K2 2%

ON/OFF ON=0 PIN 39 CI4 R244 10K R245 10K R3458 10K T26 BC848

D26 BYV28 C92 100U/25V

270P/1KV C92A C88A 330P/2KV C88 1N/1KV5

TP101 TP102 TR1 T25 MJE18008 R104A 1K8 10W D25 MUR4100E

+15Vcc +16Vcc

VERT. AMP.

CI14 TDA3654

VDRIVE	SGND	SWITCH	PGND	VERTOUT	OPS PROT	FLYGEN	VCC	
1	2	3	4	5	6	7	8	9

R256 27K R255 22K TP116 R254 270 1/2W

R251 10K R252 3K9 C184 4N7 C183 470P C182 4N7 R50 10K

C185 100U/36V D40 1N4001 R259 4K7 T29 BC548 T30 BC558 P9 100K TP117 R258 560R R266 47R

C186 1000U 35V

R253 56K C47 2U2/50 R40 270R

R39 10K P3 4K7 A4 R248 15K C180 470P P8 100R C48 2200U 25V C49 100N 250V R249 68R R250 R47 PH R82 VDC

VERT. LIN. VERT. SI

R53 1K5 R53A 27K TP8 +12Vcc R53C 47K SVHS-1 SVHS/CUBS

C51 1N D13 LL4148 T14 BC848

R54 4.7K PIN20 CI4 AU/TV AV=0

R205 1K R206 10K R207 4K7 T22 BC848 +12Vcc R208 2K2 C153 100N

R R G G B B FBLK

D201 LL4148 R204 75R

TTX9 TTX46 12345678 CN5

+15Vcc +8Vcc +5Vcc

SC1 PIN 13 CI4

R57 4K7 R56 8K2 R191 75R R192 68R R197 75R R193 75R

TP10

JP32 R0

AV/TV PIN

CI9 SW40

C134 10N R41 22K BC848 T20 R167 10K R166 2K2

BG/DK BG=1

D35 LL4148 R165 10K FC4 SFC 5.5

D36 LL4148 FC5 SFE 6.5

R162 1K

L2A 10UH C148 68P

T1B BC848 IP114

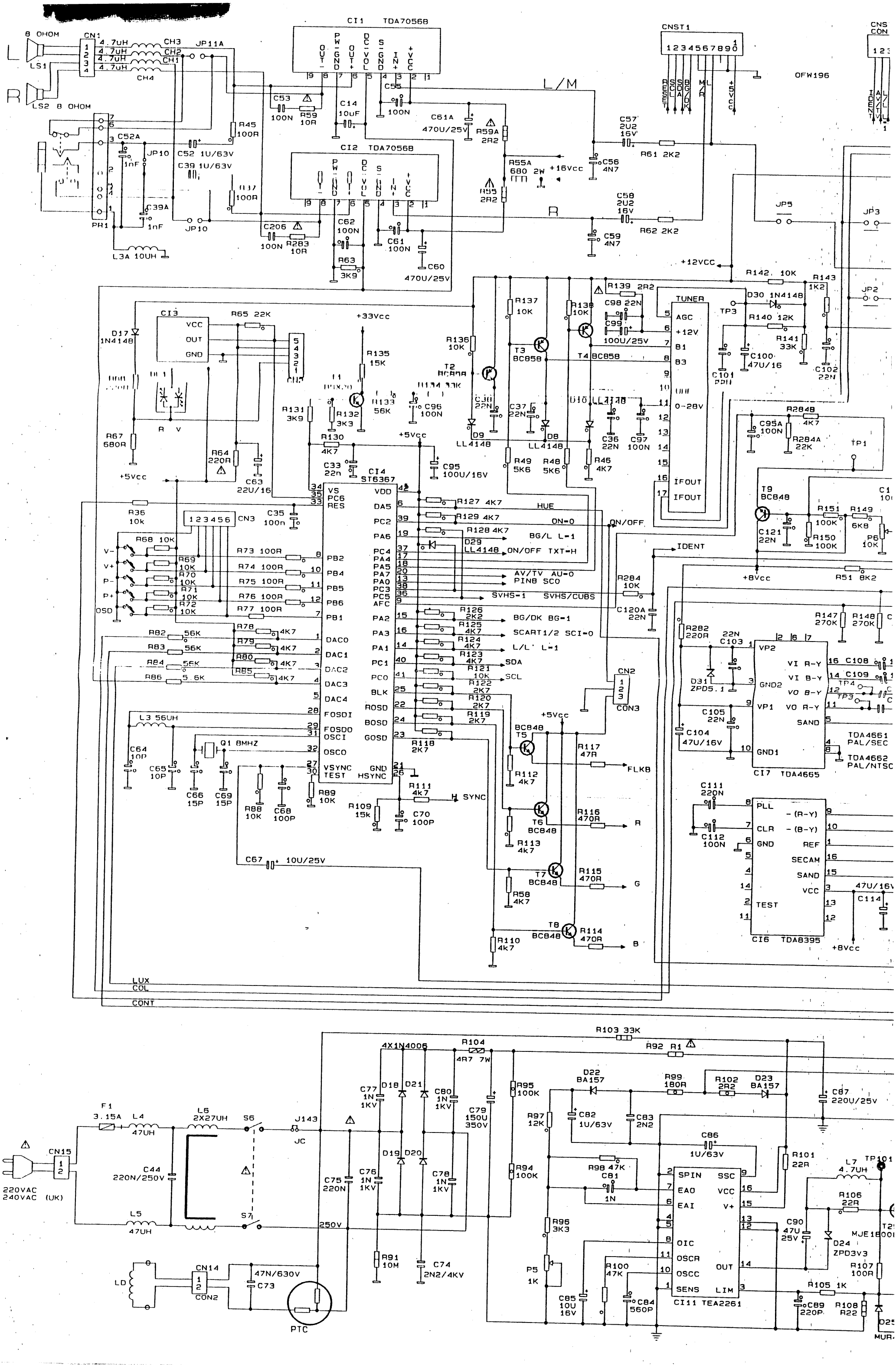
TP5.5 FC2 TP6.5 FC3 R189 1K2 R190 220R C149 100N

R205 1K

V YOKE H

CN1

CI1 TDA7056B
CI2 TDA7056B
CNST1
CNST2 CON10
CNST3 CON12
OFW196
L/M
R
JP5
JP3
JP2
+12VCC
+33Vcc
+5Vcc
+8Vcc
+16Vcc
ON/OFF
IDENT
HUE
ON=0
BG/L L=1
ON/OFF TXT=H
AV/TV AU=0
PIN8 SCO
SVHS=1 SVHS/CUBS
BG/DK BG=1
SCART1/2 SCI=0
L/L' L=1
SDA
SCL
H SYNC
FLKB
R
G
B
CI4 ST6367
CI6 TDA8395
CI7 TDA4665
CI8 TDA8362A
CI11 TEA2261
TUNER
TDA4661 PAL/SEC
TDA4662 PAL/NTSC
EASE
FBLKIN
TR1
T25 MJE18008
MUR4100E
PTC


CI1 TDA7056B
CI2 TDA7056B
CI3
CI4 ST6367
CI7 TDA4665
CI6 TDA8395
CI11 TEA2261
CNST1
CNS CON
OFW196
8 OHOM
LS1
LS2 8 OHOM
CN1
CH1
CH2
CH3
CH4
JP11A
JP10
PR1
L3A 10UH
L/M
R
+16Vcc
+12VCC
+33Vcc
+5Vcc
+8Vcc
ON/OFF
IDENT
HUE
ON=0
BG/L L=1
ON/OFF TXT=H
AV/TV AU=0
PIN8 SCO
SVHS=1 SVHS/CUBS
BG/DK BG=1
SCART1/2 SCI=0
L/L' L=1
SDA
SCL
H SYNC
FLKB
R
G
B
TUNER
AGC
+12V
B1
B3
0-28V
IFOUT
IFOUT
LUX
COL
CONT
CN2
CON3
JP5
JP3
JP2
TP3
TP1
TP4
TDA4661 PAL/SEC
TDA4662 PAL/NTSC
4X1N4006
F1 3.15A
L4 47UH
L5 47UH
L6 2X27UH
S6
S7
J143
JC
CN15
220VAC 240VAC (UK)
C44 220N/250V
250V
CN14
CON2
LD
PTC
47N/630V
Q1 8MHZ
4R7 7W
R103 33K
R104
R92 R1
D22 BA157
D23 BA157
R99 180R
R102 2R2
C87 220U/25V
C82 1U/63V
C83 2N2
C86 1U/63V
R97 12K
R98 47K
C81 1N
R96 3K3
P5 1K
R95 100K
R94 100K
C77 1N 1KV
C80 1N 1KV
C79 150U 350V
C75 220N
C76 1N 1KV
C78 1N 1KV
D18 D21
D19 D20
R91 10M
C74 2N2/4KV
R101 22R
L7 4.7UH
R106 22R
C90 47U 25V
D24 ZPD3V3
R107 100R
R105 1K
C89 220P
R108 R22
C85 10U 16V
C84 560P
R100 47K
MJE18001
MUR
TP101

PCA138 STEREO/NICAM BG/LL'

CI901 TDA5330T

CI902 TDA3845 FM DEM SEL

CI903 TDA9830

CI904 MSP3410

MSP3400=STEREO
MSP3410=STEREO+NICAM

CNST902

CNST903

CNST904

PC136.8 DECODER AUDIO STEREO

CI904 MSP3410

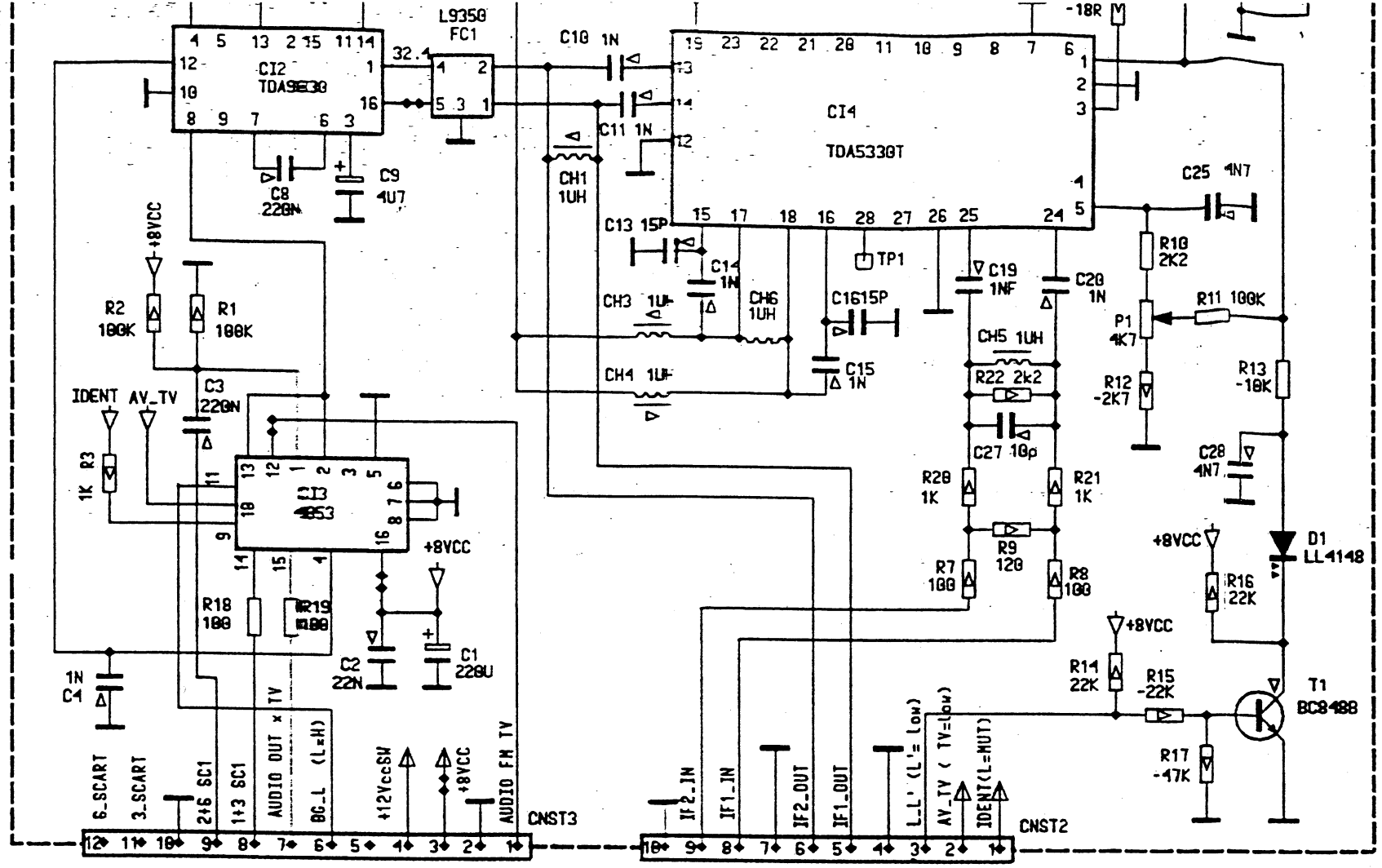
CI903 TDA3845

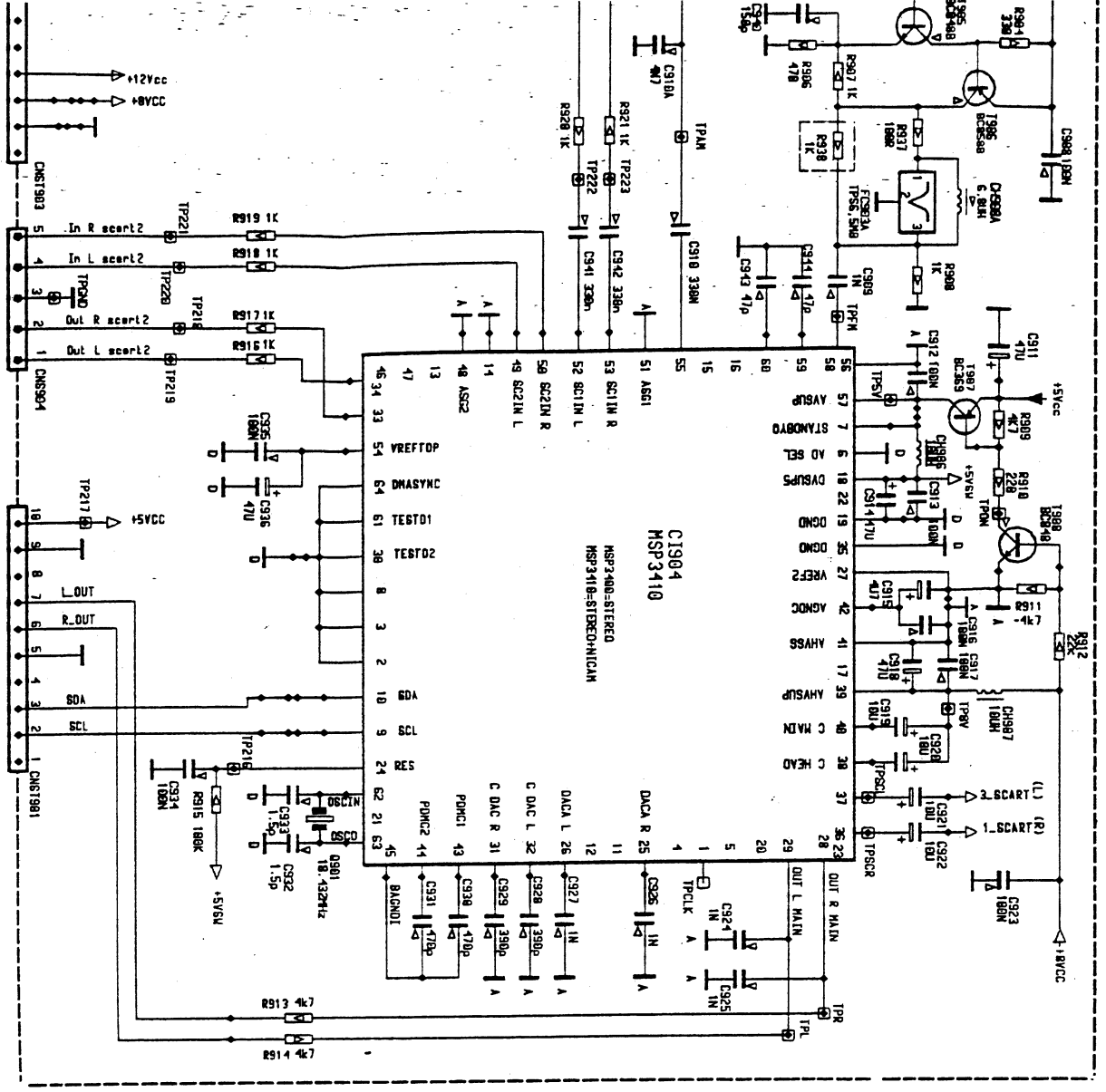
PC137 SECAM MONO L_L'

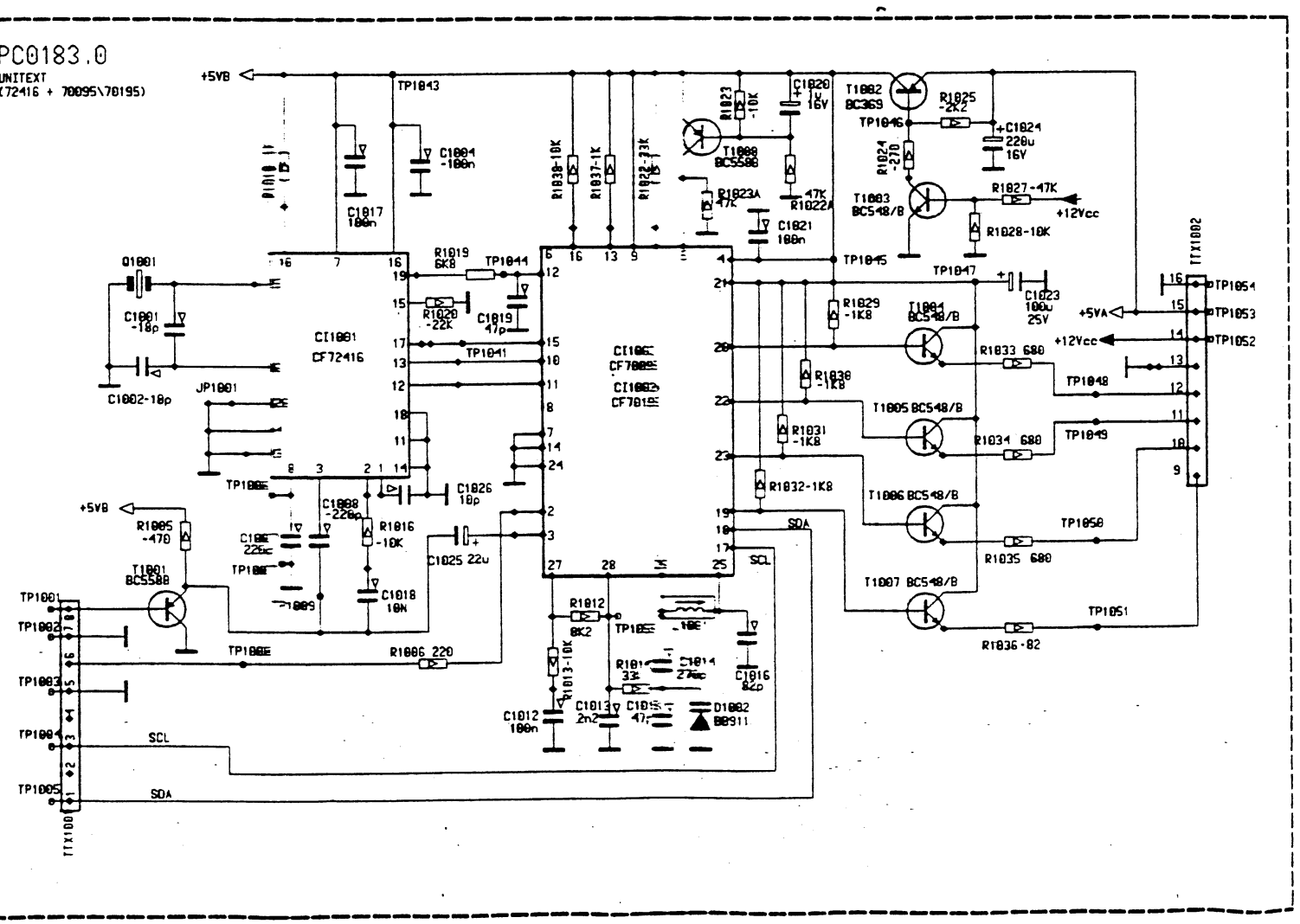
CI4 TDA5330T

CI2 TDA9830

CI3 4053


CI2
TDA9330
L9350
FC1
CI4
TDA5330T
C10 1N
C11 1N
CH1 1UH
C13 15P
C14 1N
CH3 1UF
CH6 1UH
C1615P
C15 1N
CH4 1UF
C19 1NF
C20 1N
CH5 1UH
R22 2k2
C27 10p
C25 4N7
R10 2K2
P1 4K7
R12 -2K7
R11 100K
R13 -10K
C28 4N7
D1 LL4148
R16 22K
R14 22K
R15 -22K
T1 BC848B
R17 -47K
-18R
C8 220N
C9 4U7
+8VCC
R2 100K
R1 100K
IDENT
AV_TV
C3 220N
R3 1K
CI3
TDA9353
R18 100
R19 100
C2 22N
C1 220U
C4 1N
R28 1K
R21 1K
R7 100
R9 120
R8 100
6_SCART
3_SCART
2+6 SC1
1+3 SC1
AUDIO OUT x TV
BG_L (L=H)
+12VccSW
AUDIO FM TV
CNST3
IF2_IN
IF1_IN
IF2_OUT
IF1_OUT
L_L' (L'= low)
AV_TV (TV=low)
IDENT(L=MUT)
CNST2


CI904
MSP3410
MSP3400-STEREO
MSP3410-STEREO+NICAM
+12Vcc
+8VCC
+5VCC
+5VA
CNST903
CNST904
CNST901
In R scart2
In L scart2
Out R scart2
Out L scart2
R919 1K
R918 1K
R917 1K
R916 1K
VREFTOP
DMASYNC
TESTO1
TESTO2
SDA
SCL
RES
L_OUT
R_OUT
OSCIN
OSCO
Q901
18.432MHz
C903 1.5p
C932 1.5p
R915 100K
DACA R
DACA L
DACL R
DACL L
OUT L MAIN
OUT R MAIN
TPCL
TPCR
TPLA
TPLM
TPAM
TPFM
TPCM
TPSCL
TPSCR
TPCK
TPDV
TPRV
TPAV
TPFV
TPSV
TPSCR
TPCL
TPR
TPL
R913 4k7
R914 4k7


PC0183.0
UNITEXT
(72416 + 70095\70195)
+5VB
CI1001
CF72416
CI1002
CF70195
Q1001
JP1001
TP1001
TP1002
TP1003
TP1004
TP1005
SCL
SDA
TP1043
TP1044
TP1041
TP1045
TP1046
TP1047
TP1048
TP1049
TP1050
TP1051
TP1052
TP1053
TP1054
+5VA
+12Vcc
T1002 BC369
T1003 BC548/B
T1004 BC548/B
T1005 BC548/B
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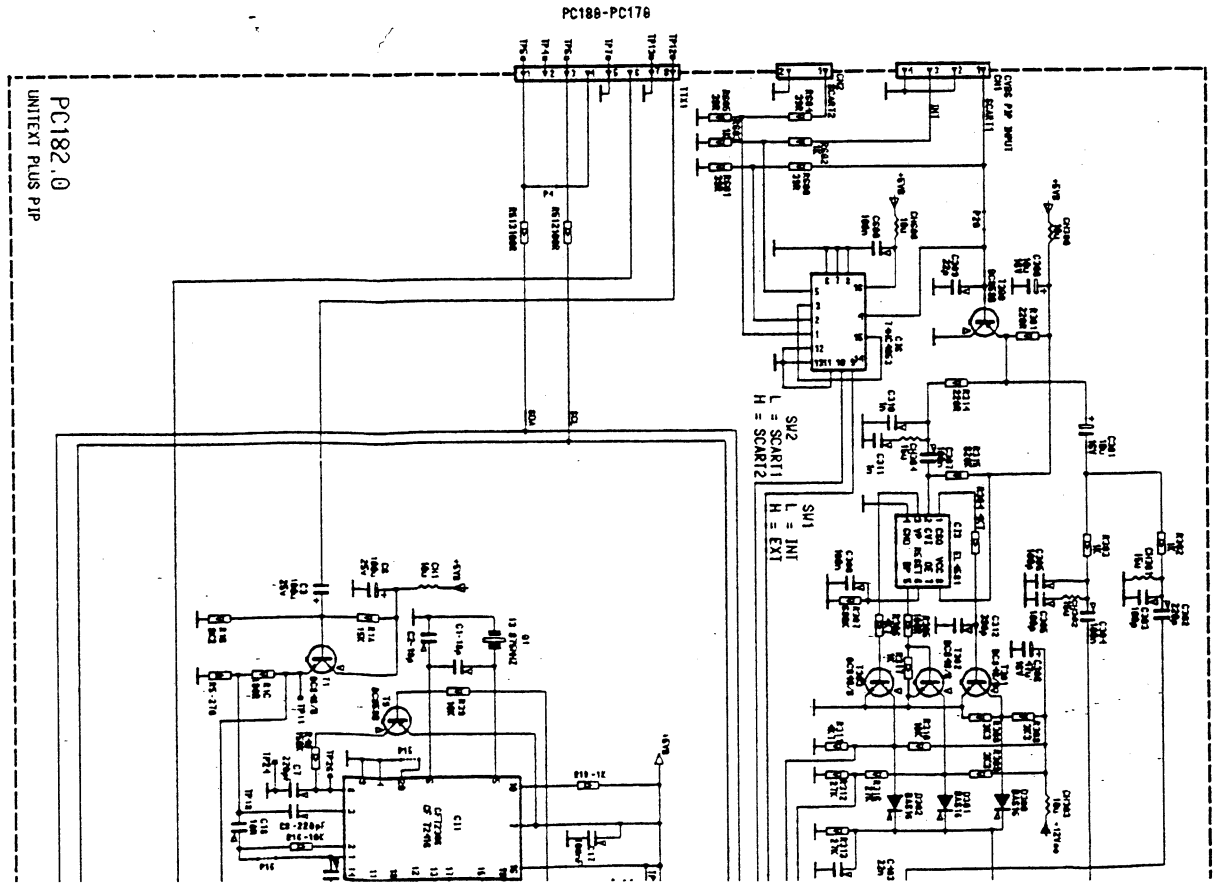
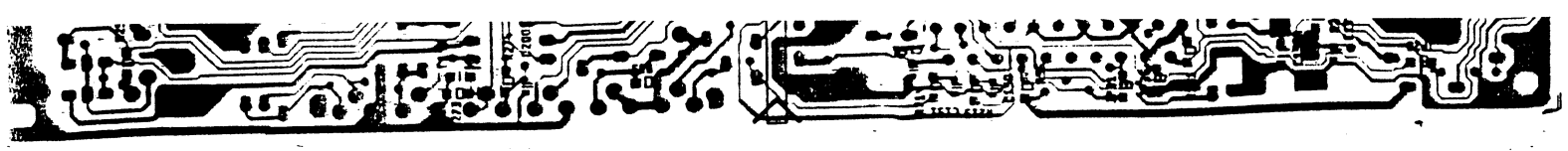
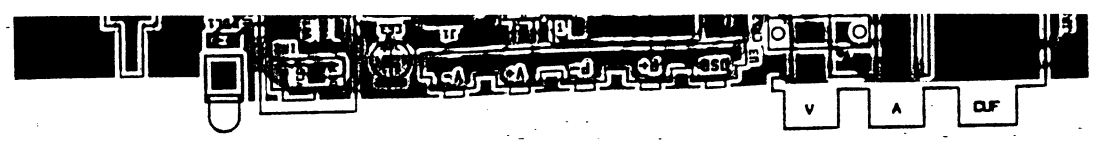
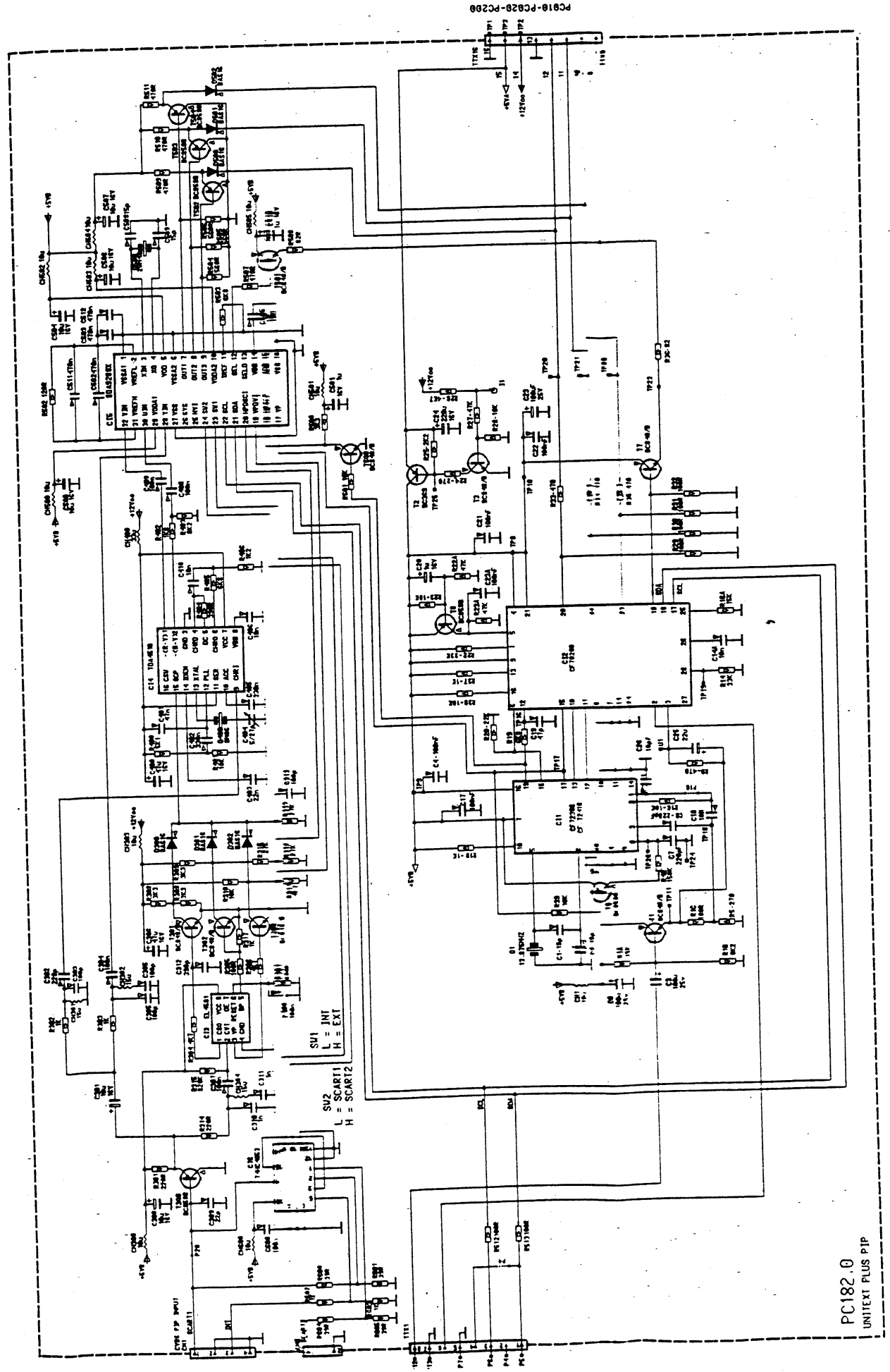
T1001 BC558B
R1036-82
R1035 680
R1034 680
R1033 680
TTX1002
TTX1001


PC182.0
UNITEXT PLUS PIP
PC186-PC176
SW1 L = INT H = EXT SCART2
SCART1
SCART2



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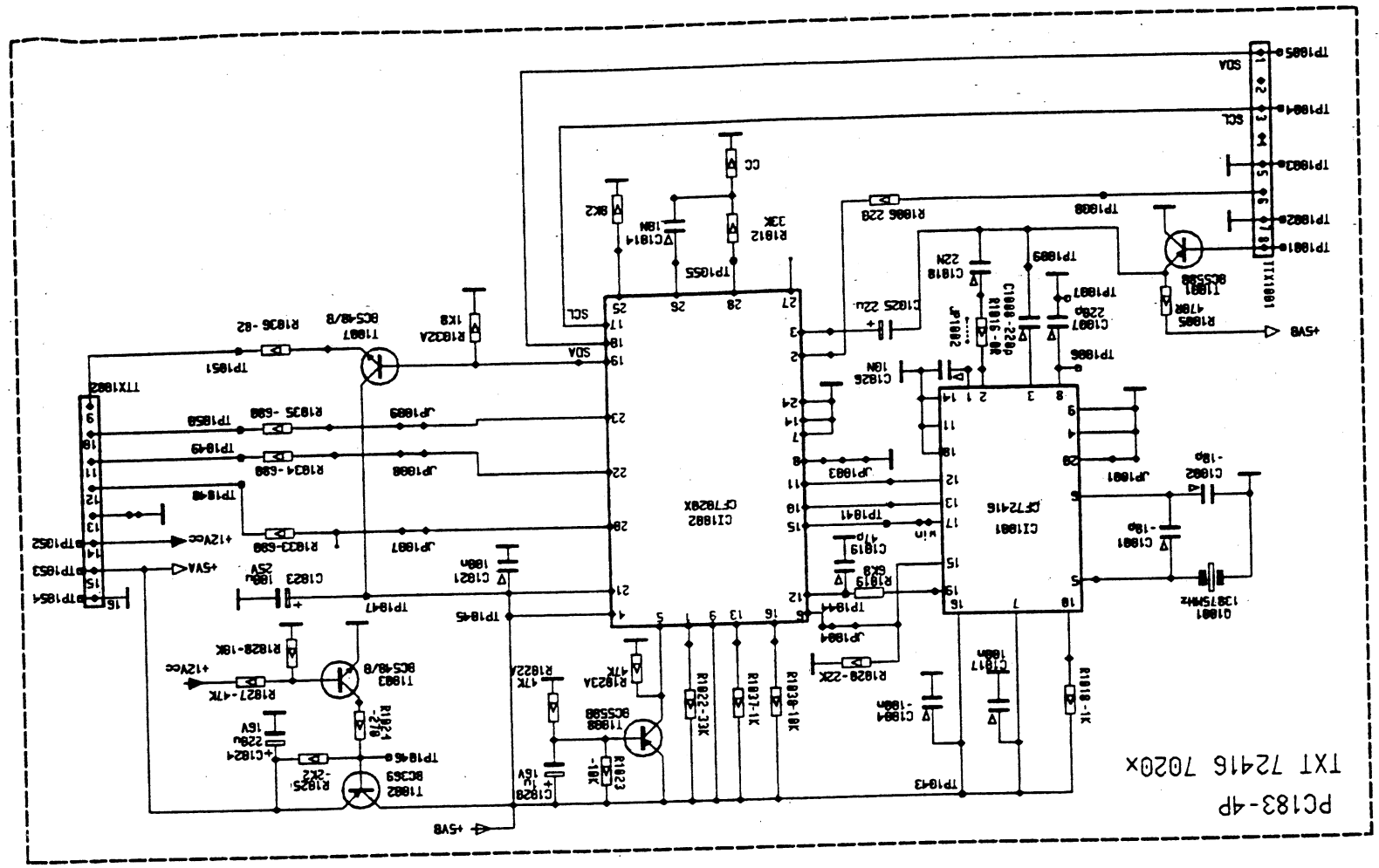
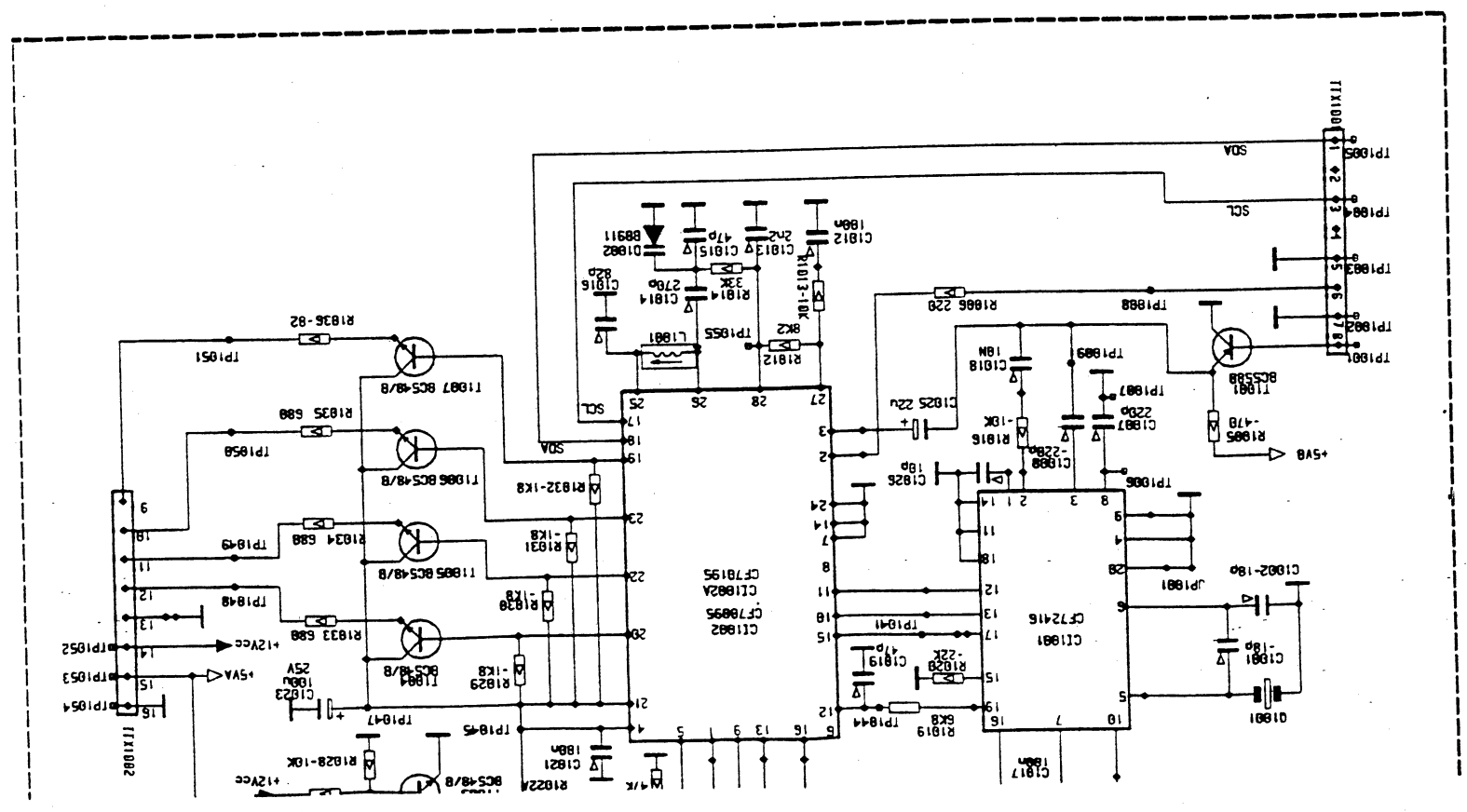
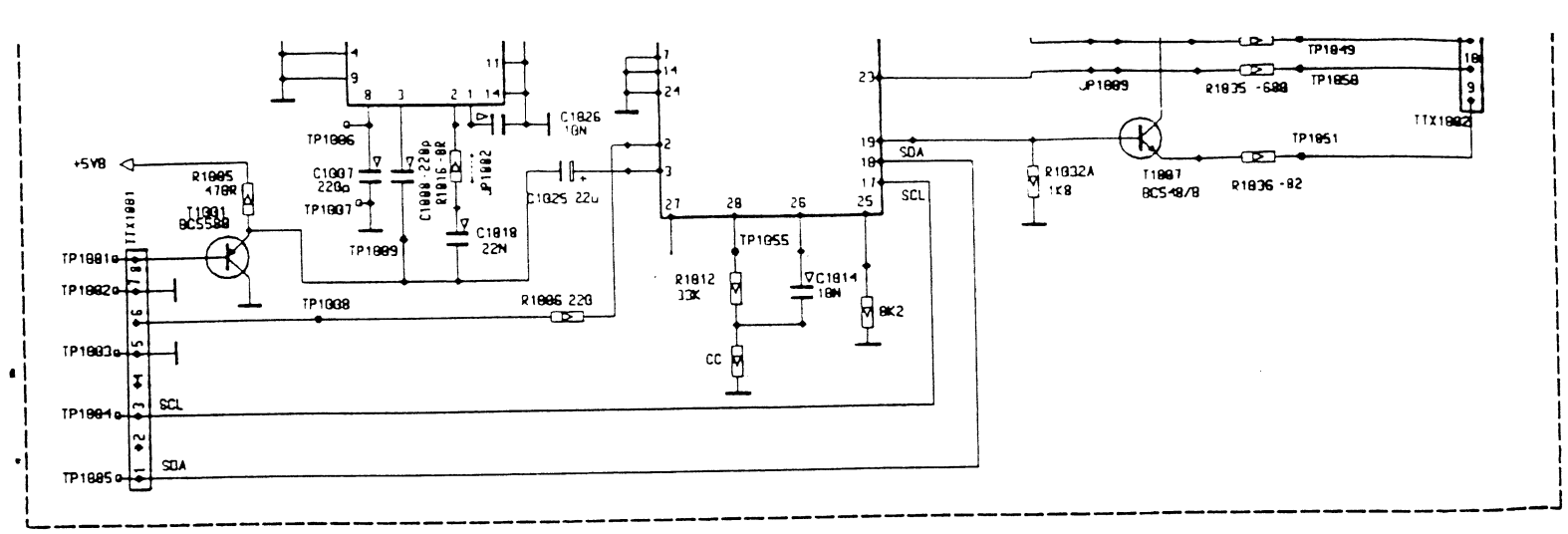
UNITEXT PLUS PIP
SW1
L = INT
H = EXT
SW2
L = SCART1
H = SCART2


TXT 7241G 7020x
PC183-4P




+5V8
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TP1003
TP1004
TP1005
SCL
SDA
TP1006
TP1007
TP1008
TP1009
C1826 10N
C1825 22u
C1818 22N
R1812 33K
C1814 10N
BK2
CC
R1806 220
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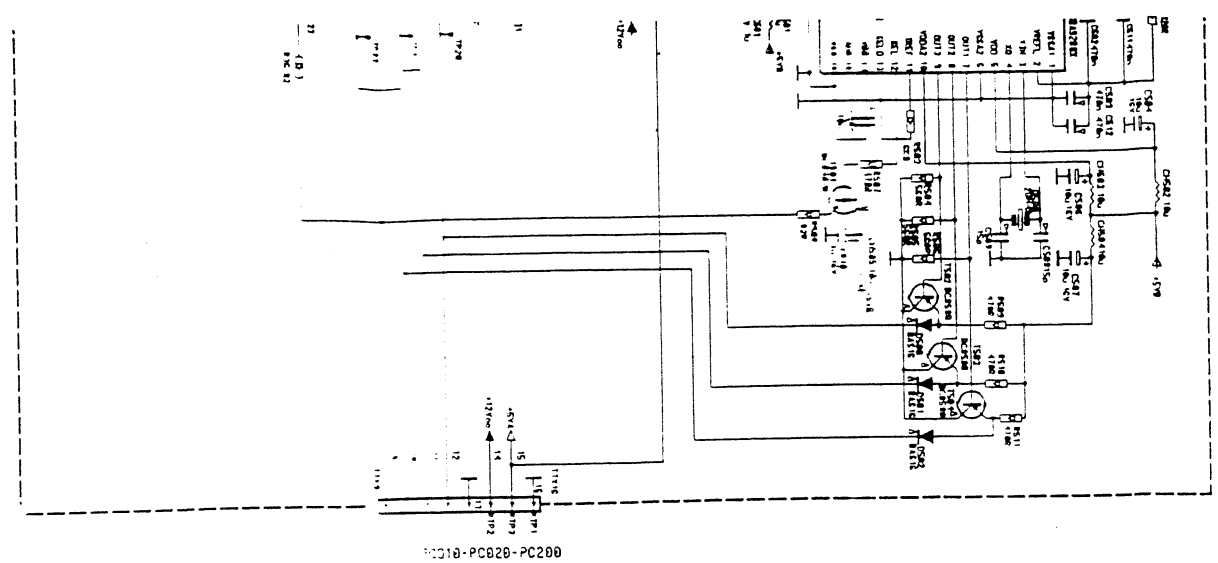
T1007 BC548/8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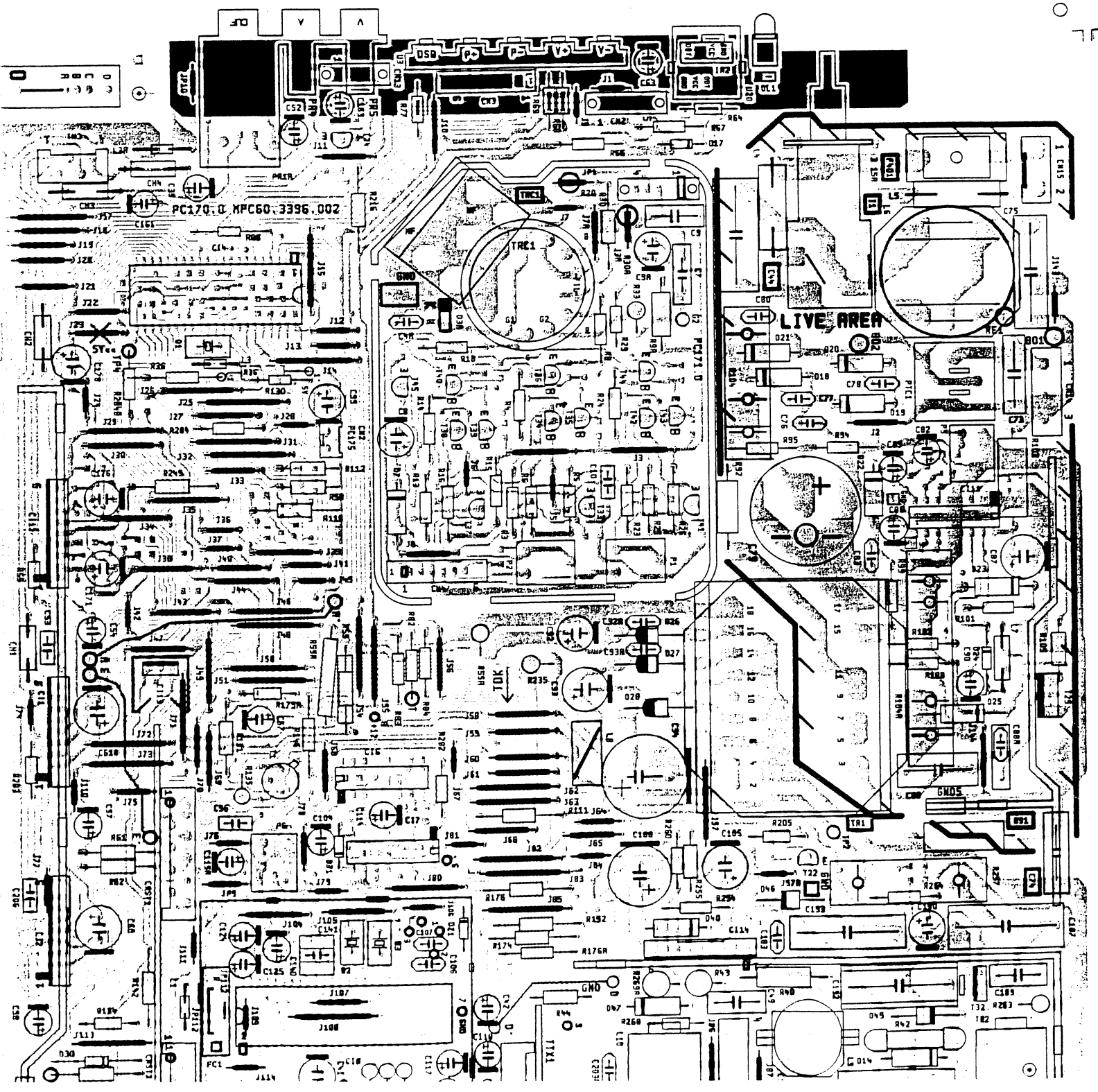
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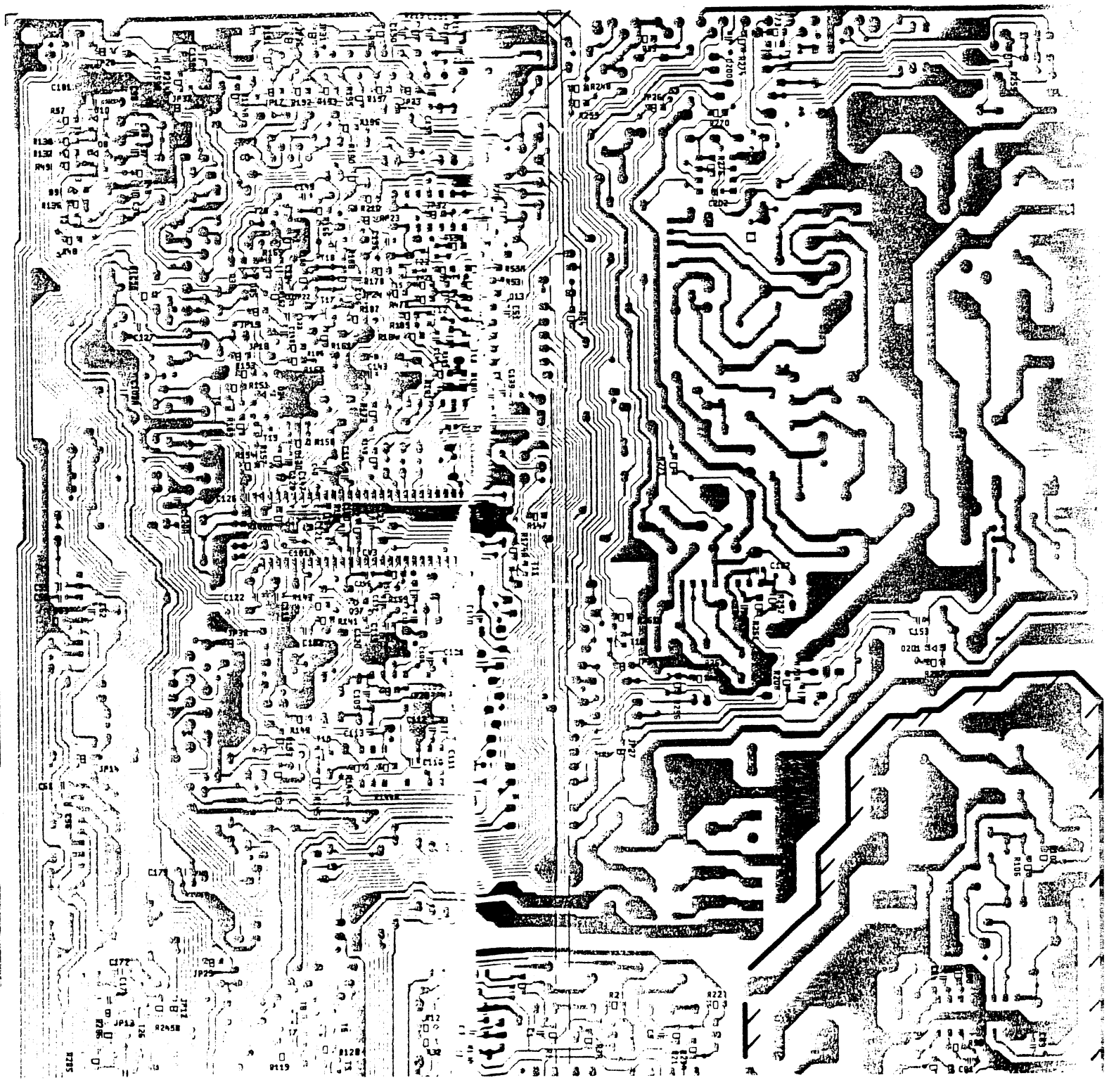
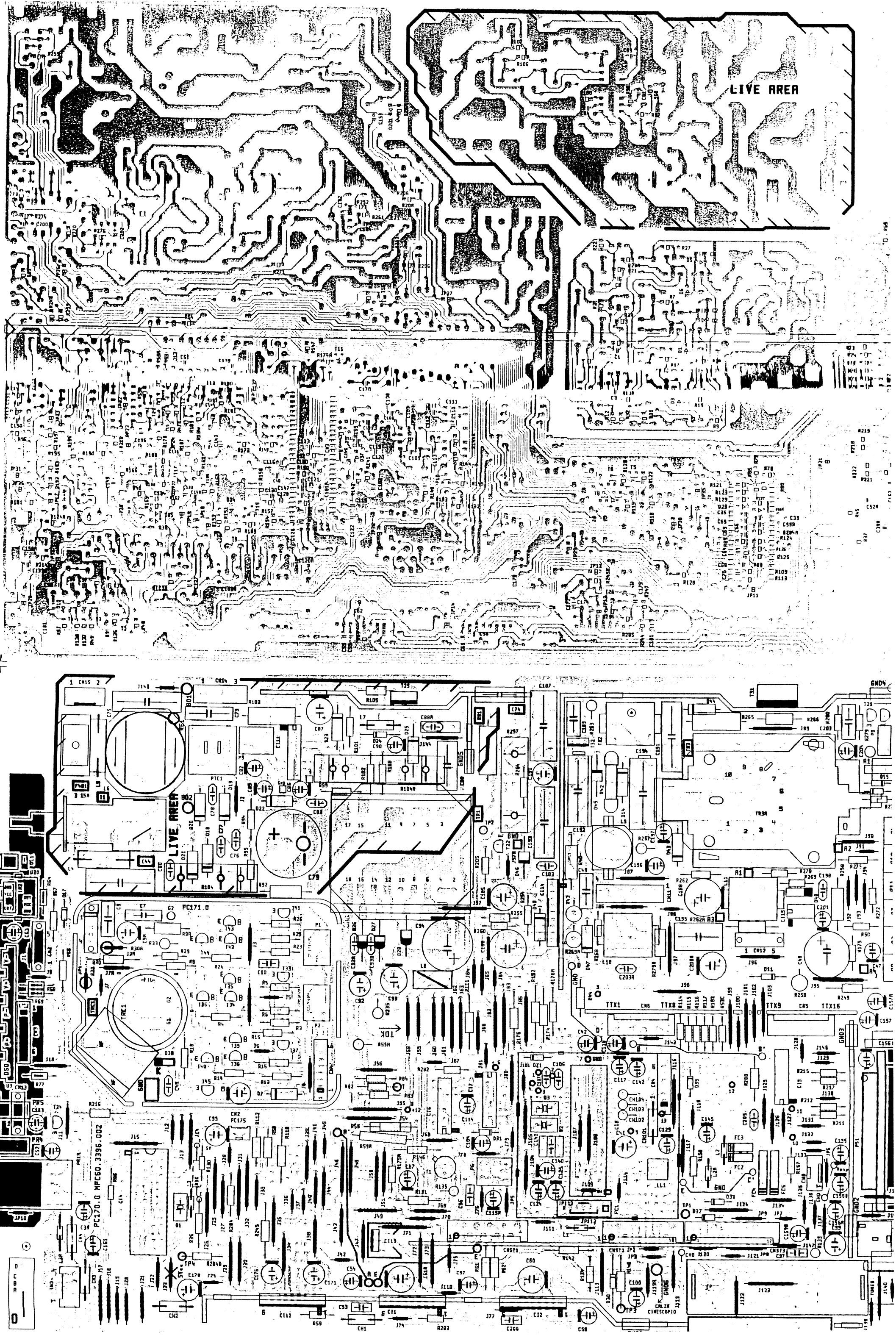
GND
TRE1
TR1




LIVE AREA
LIVE AREA
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